

FILE COPY

Mail to: PMB 2020 DENR - Water Rights 523 E Capitol Ave Pierre, SD 57501-3182 ph. (605) 773-3352	No. <u>8065-3</u> (office use only) Hydrologic Unit <u>10160003</u>
	Basin <u>James River</u>
	Newspaper <u>American News</u>
	<u>PO Box 4430</u> <u>Aberdeen 57402 605 225-400</u>

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NOV 26 2014
WATER RIGHTS
PROGRAM

Application For Permit To Appropriate Water Within The State Of South Dakota

Check use(s) of water:

<input checked="" type="checkbox"/> Municipal	<input type="checkbox"/> Suburban Housing	<input type="checkbox"/> Recreational	<input type="checkbox"/> Institutional
<input type="checkbox"/> Rural Water System	<input type="checkbox"/> Commercial	<input type="checkbox"/> Fish & Wildlife	<input type="checkbox"/> Geothermal Heat
<input type="checkbox"/> Domestic (over 18 gpm)	<input type="checkbox"/> Industrial	<input type="checkbox"/> Other	

Type of Application: (check one)

<input checked="" type="checkbox"/> New	<input type="checkbox"/> Vested Right (Use predates Mar 2, 1955)	<input type="checkbox"/> Future Use Reservation
<input type="checkbox"/> Place to Beneficial Use Water Reserved by Future Use Permit No. _____		
<input type="checkbox"/> Amendment/Correction to Permit No. _____		

Description of amendment/correction: (i.e. change diversion point(s), add diversion point(s), change use, etc.)

1. Name to Appear on Water Permit City of Hecla

(check one) ☐ Owner ☐ Tenant/lessee ☐ Owner's Legal Agent

(name and complete address if different than above name)

Mailing Address PO Box 188 (Address) Hecla (City) SD (State) 57446 (Zip Code)

Home Phone 605-994-2333 Cell _____ Email heclasd@heartlandpower.org

2. Amount of water claimed 0.033 *CFS or 15 **GPM ***AF
(*Cubic Feet per Second) (**Gallons per Minute) (***Acre Feet - storage capacity of dam/dugout or annual use if applicable)

3. Source of water supply Aquifer

4. Location of point of diversion 1 well in NE 1/4, NE 1/4, Section 25-T128N-R62W County Brown
(example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W)

If not a public water supply (e.g. municipal), will water be used outside of the area described above? ☐ Yes ☒ No

If "Yes," where will water be used? _____
(example - NW1/4 section 12-T104N-R53W)

5. County or counties where water will be used Brown

6. Annual period during which water is to be used Year-Round Jan 1 - Dec 31

7. Give a description of the project. When available include any preliminary engineering report or other reports or information that will help explain the project. (Attach sheet if more space is needed)

Existing artesian well completed in 1914. Water from this well is diverted to provide supplemental water to wetlands created for mitigation of impacts resulting from waste-water pond project.

See attached sheets for additional information.

I, Jay D. St. Mayor, the applicant, certify that I have read this application, have examined the attached map, and that the matters stated are true.

Supplemental Information

(type or print)

1. Well Information (check one or both as applicable) ☐ Drilling new well(s) ☒ Using existing well(s)

a) If new wells, how many ____ Have test holes been drilled ☐ Yes ☒ No Drilled by _____
(if yes, please provide copies of logs)

b) If existing wells, how many 1 Provide copy of log(s), if available. Drilled by Anton Johnson

c) Well Depth 912 Depth to Top of Water Bearing Material N/A Depth to Water from Surface N/A

d) Distance to nearest existing domestic well:

On applicant's property _____ On property owned by others 2,000 Feet

2. Wastewater Disposal System Information

a) Type of System (i.e. septic tank, drain field) _____

b) System Capacity (gallons) _____ Year Constructed _____

c) Connected to the City of _____ Sanitary System

3. Dugout Information

a) Surface Dimensions _____ Depth _____

b) Depth to water (ground surface to water level) _____

4. Water Storage Dams

If the proposed water use system contains one or more storage dams, please furnish the information requested below for each dam. The locations of the dams need to be shown on the map submitted with the application.

a) If a private engineering firm or government agency was involved in the design of this dam, please give their name and address:

b) Freeboard _____

c) Crest Width _____

Crest Length _____

d) Height _____

e) Primary Outlet Capacity _____

If pipe, diameter _____

f) Secondary Spillway Capacity _____

Spillway Width _____

g) X & Y Slope (e.g. 3 to 1 is a typical slope)

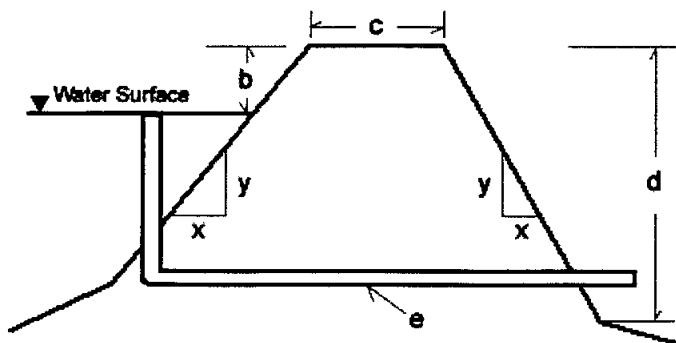
Upstream _____

Downstream _____

h) Surface Area of Impoundment _____

i) Storage _____ Acre Feet

j) Drainage Area Above Dam _____ Acres



The artesian well identified in this application is located on parcel of property purchased by the City of Hecla, South Dakota for the construction of a new wastewater treatment facility.

The wastewater treatment facility was constructed in 2006.

In the design and environmental review process for planning of the treatment facility, wetland impacts were identified and wetland mitigation was required to comply with funding sources utilized by the City of Hecla for the project.

It was observed at the time, the in-place well flowed to a small area of ponded water west of the well location. As part of the mitigation plan for the project this area was expanded to create additional wetland acres and mitigate for the areas of wetland impacted by the treatment facility project.

The existing well provided a minimum volume of water to the existing and expanded wetland area but provided the beneficial use of maintaining a supply of water to the expanded wetland areas created to mitigate impacted wetlands associated with the project.

The approximate location of the well, the location of the prior existing ponded water area and the expanded wetland mitigation area are shown on an attached plan sheet from the project.

In May 2014, City of Hecla utility staff conducted an on-site measurement of flow from the well. Those efforts indicate the well flowing at 0.769 gallons per minute.

This flow rate was observed to be minimal at maintaining water levels in the prior existing ponded water area and not sufficient to add water to the mitigation area created adjacent to the original ponded water area.

While area neighbors fear the water from the well leaves the site and creates damage to adjoining roads, the minimal rate of flow from the well and the prior existing and created wetland basins are likely capturing the water contributed by the well.

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EXCAVATE AND SHAPE NEW
WETLAND AREA
SALVAGE AND REPLACE TOPSOIL
REMOVE 1032 CY TOPSOIL
REPLACE 1032 CY TOPSOIL
UNCLASSIFIED EXCAVATION 6209 CY

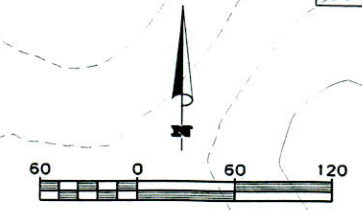
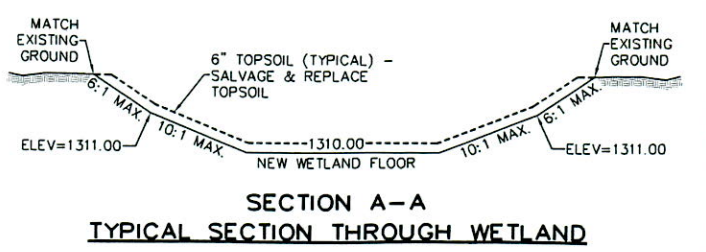


EXCAVATE AND SHAPE NEW
WETLAND AREA
SALVAGE AND REPLACE TOPSOIL
REMOVE 1415 CY TOPSOIL
REPLACE 1415 CY TOPSOIL
UNCLASSIFIED EXCAVATION 5402 CY

ARTIFICIAL WETLAND
FLOOR ELEV=1311.75
5.18± ACRES @ 1313.75

CELL 1
FLOOR ELEV=1312.25
8.94± ACRES @ 1317.25

ALL WORK FOR WETLAND
MITIGATION IS A PART OF
SCHEDULE "A"



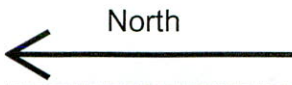
PLOTTED BY: JAMES PLOTTED ON: 6/10/2014 12:18 PM



2301 8th Ave. NE, Suite 125
P.O. Box 20
Aberdeen, SD 57402

REVISIONS: #2-07/18/06	DRAWN BY: KGH	CHECKED BY: DJW	PROJECT: 2006 WASTEWATER TREATMENT FACILITY HECLA, SOUTH DAKOTA	SHEET DESCRIPTION: WETLAND MITIGATION LAYOUT	DATE: 6-1-06	SHEET WM1
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Z:\HECLA\A02062\MASTER.DWG



Section 24, T128N
R62W

Section 25, T128N
R62W

Section 36, T128N
R62W

Section 23, T128N
R62W

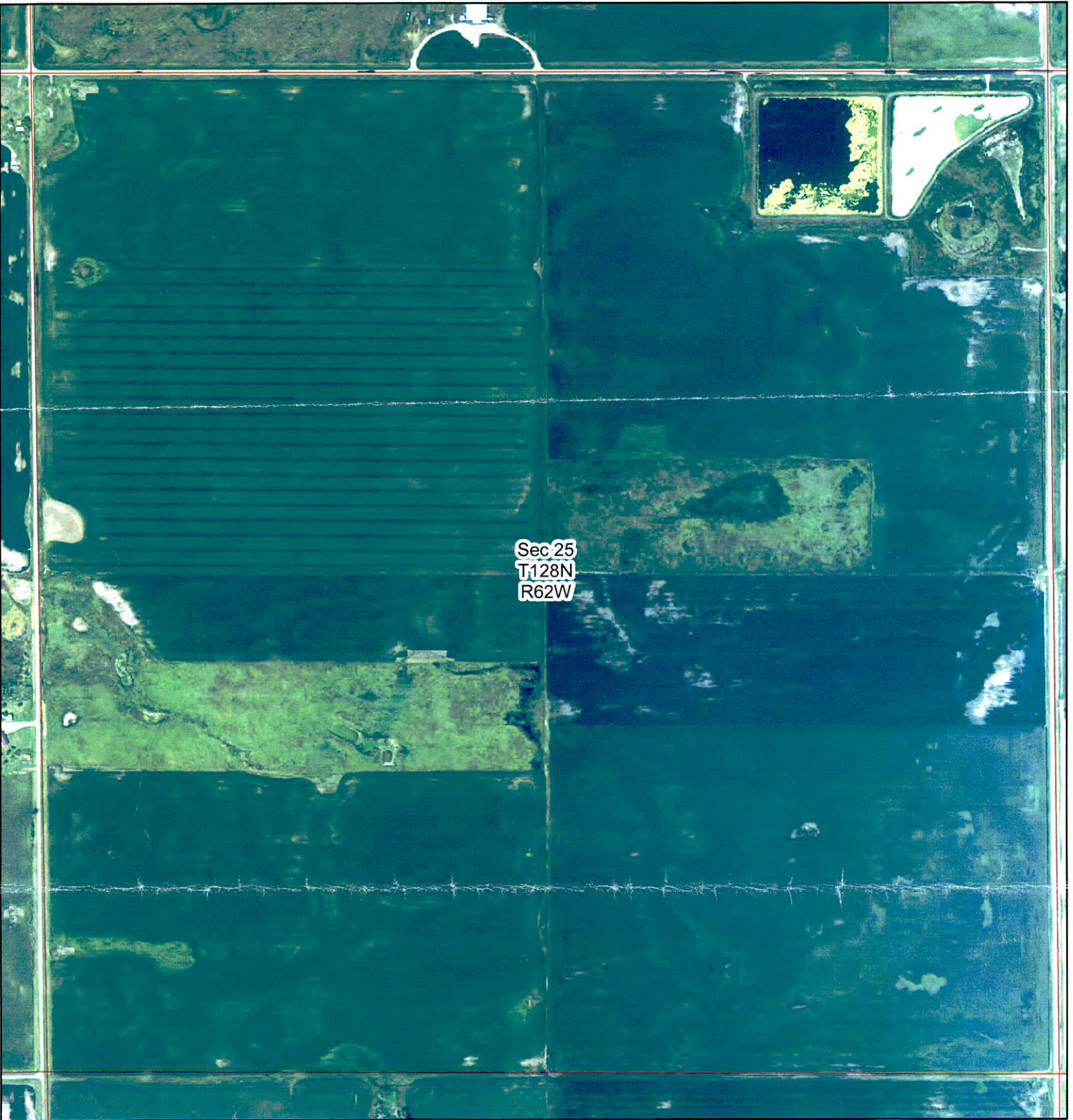
Section 26, T128N
R62W

Section 35, T128N
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Sec. 25
T128N
R62W

0 0.1 0.2 0.4 Miles

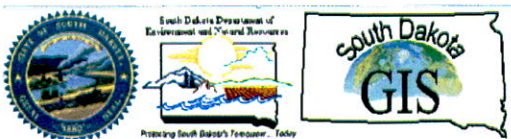


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Adam Mathiowetz



Map Prepared By:
Adam Mathiowetz
May 1, 2014

1440 S. D., Oct 6 1901

COMPLETED WELL FOR

C. C. Mullett

Postoffice address Neola S. Dak

Depth 912 ft. Flows 15 gallons per minute.

Well located on qt., Sec T R

Started work on well Oct 1 1901

Well completed Oct 6 1901

912 feet 1" Black pipe

160 feet 2" " pipe

feet pipe

feet pipe

6 feet perforated pipe

Location of perforations on Bottom

What was the last well completed by this machine

Murphy

What was the date of its completion Sep 29

Explain loss of time, if any, between completion of last well and commencement of this one

What extra charges are there against this well for pipe, fittings and

supplies (please itemize)

2 3/4 Nipples .14

1 Elbow 1 1/4 Elbow .00

22 feet 1" Black Pipe 1.51

2 1" Black Elbows .24

Please state what casing and gasoline you have on hand after completion of this well

Anton Johnson

Manager of Rig No. 21

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